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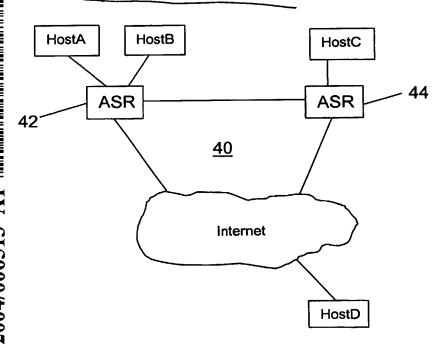[SE/SE]; Täbyvägen 334C, S-187 53 Täby (SE).

(54) Title: A FILTER FOR TRAFFIC SEPARATION

(57) Abstract: The invention relates to a filter for an open system interconnection layer2 traffic separation in at least one Access Switching Router (42) in a network (40), having ports in the routers (42, 44) configured to the same virtual local area network. The filter is filtering data packet traffic to the ports, simulating that if the source device and destination device is in the same layer2 domain, the router layer2 address is the actual destination address both for the source and destination device. It is also simulating that if the source device and destination device are not in the same layer2 domain but in the same layer3 subnet, the router layer2 address is the actual destination layer2 address for the source to the destination. By this filtering is providing the use of one IP subnet, spreading it over several premises and a multiple of Access Switching Router and the same subnet in multiple layer2 domains, thus covering more customers.